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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,167	12/29/2000	Merle L. Miller	2069.008600	8941
	7590 12/10/200 IORGAN & AMERSO	EXAMINER		
10333 RICHMO	OND, SUITE 1100		JAMAL, ALEXANDER	
HOUSTON, TX 77042			ART UNIT	PAPER NUMBER
			2614	
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			12/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/752,167	MILLER, MERLE L.				
Office Action Summary	Examiner	Art Unit				
	ALEXANDER JAMAL	2614				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 04 Au	iaust 2008					
•	action is non-final.					
· <u> </u>						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9-12 and 19-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies flot receive	u.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5)  Notice of Informal P 6)  Other:	atent Application				

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#### **DETAILED ACTION**

### Response to Amendment

- 1. Based upon the submitted amendment, the examiner notes that claims 9,19,22 are amended and claims 1-8,13-18,23,24 are cancelled.
- 2. The examiner submits a new set of non-final rejections for the claims, and maintains the previously cited art rejection.

### Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. **Claims 9-12,19-22** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims all recite either a 'feedback loop' or a 'first loop' with an input and output that are coupled via a switch. The specification states that only relevant circuits are shown in the drawings and referenced in the spec and that other circuits may be present. It is not clear exactly where the 'input' and 'output' of the feedback path are. For the purposes of examination, the examiner assumes the input/output can be broadly

read, as they are in the previous prior art rejection (repeated below), and again broadly read in the new rejection based on new prior art.

The claims all recite a 'lesser current' flows through at least one component, it is not clear how less current would only flow through one component on the loop when the loop was bypassed as all the components would be in series and all would receive less current. Further, it is not clear exactly what the current is lesser than.

Correction/Clarification is requested.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3, 7-13, 18-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Moyal et al [US 5,809,109].

Regarding claim 9, Moyal et al disclose an apparatus, as shown in Fig. 4, comprising: a feedback path having an input and output terminal (18, 20), the feedback path including an analog-to-digital converter (110) for processing voice signals (Vin) [Fig. 4; col. 3, lines 19-38];

a switch (105) for coupling the input and output terminal of the feedback path in response to receiving a control signal (i.e. ring command) [Fig. 4; col. 3, lines 11-18]; and a ringing generator (202) for providing a ringing signal to a subscriber line in response to the control signal [Fig. 4; col. 3, line 47-63; col. 4, line 39 to col. 5, line 2]. Less current will flow through the A/D with Vin, than with the ringing signal because Vin is digital level and a ringing signal is inherently greater as it must drive a telephone line. And as such would cause more current to flow through the A/D.

Regarding claim 22, Moyal et al disclose an apparatus, as shown in Fig. 4, comprising: means (SLAC 4) for processing a signal received over a subscriber line by one or more components in a first path [SLIC 2], the first path having an input terminal (18) and an output terminal (20) [Fig. 4];

means (DSP 120) for receiving a control signal (Ring command);

means (switch 105) for coupling the input and the output terminal of the first path in response to receiving the control signal [Fig. 4; col. 4, line 51 to col. 5, line 2]; and means (ring generator 202) for providing a ringing signal to the subscriber line responsive to the control signal [Fig. 4; col. 2, line 41 to col. 5, line 20].

Claim 19 is essentially similar to claim 22 and is rejected for the reasons stated above a propos of claim 22.

Regarding claim 18, Moyal et al disclose an apparatus, as

shown in Fig. 4, comprising:

means (DSP 120) for using an analog-to-digital converter for processing voice signals [Fig. 4;

col. 3, lines 19-39];

means (DSP 120) for using the analog-to-digital converter for DC feed control signal [Fig. 4; col.

Col. 3, lines 40-45; col. 4, line 8-20; col. 5, lines 31-50];

means (DSP 120) for receiving a ringing control (Ring command) [Fig. 4];

means (ringing generator 202) for transmitting a ringing signal to a subscriber line in response to

the ringing control signal [Fig. 4; col. 2, line 41 to col. 5, line 20; col. 3, lines 11-18];

means (A/D converter 110) for receiving a portion of the ringing signal from the subscriber line

[col. 2, lines 47-64];

means (A/D converter 110) for converting the portion of the ringing signal to a digital signal

using the analog-to-digital converter(110) [Fig. 4];

and

means (DSP 120) for providing a ring-trip indication in response to the digital signal [Fig. 4; col.

2, lines 57-64; col. 3, lines 40-45; col. 6, lines 24-32].

Claims 13, 1 and 7 are essentially similar to claim 18 and are rejected for the reasons stated

above.

Regarding claim 2, Moyal et al further disclose the method, wherein the ringing signal comprises

an AC signal [col. 2, lines 57-64].

Regarding claim 3, Moyal et al further disclose the method, including terminating the ringing

signal in response to the ring-trip indication [col. 3, lines 19-35].

Claim 8 is essentially similar to claim 3 and is rejected for the reasons staed above.

Regarding claim 23, Moyal et al further disclose the method, comprising using the analog-to-

digital converter (110) for DC control [Fig. 4].

Regarding claims 10-12, 20-21 and 24, the limitations are shown above.

# Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moyal et al as applied to claim 13 above, and further in view of Anderson et al [US 6,728,370 B1].

Regarding claim 14, Moyal et al do not teach expressly using an integrated subscriber line.

However, it is well-known in the art.

Anderson et al teach using a subscriber line integrated circuit, wherein the voltage subscriber line interface circuit (515) [Fig. 5; col. 5, lines 45-62].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Anderson et al with Moyal et al to provide an alternative embodiment

of the SLIC of Moyal et al to reduce a production cost and compact signal process using the SLIC [Anderson et al; col. 5, lines 45-54].

Regarding claim 15, Anderson et al further teach a line card (integrated SLIC), wherein the subscriber line interface circuit is for receiving a data signal in a frequency band above voice signals [Fig. 1; col. 3, 54-59].

Regarding claim 17, the combination of Moyal et al and Anderson et al teaches the method, wherein the ringing signal comprises an AC signal [Moyal et al; col. 2, lines 57-64].

### Response to Arguments

1. Applicant's arguments have been fully considered but they are not persuasive.

As per applicant's arguments that the input/output of Moyal is not the same as that of applicant's device, the examiner reads the 'input' and 'output' of a loop broadly and contends that Vin and the input to the A/D would read on the input/output as claimed.

As per applicant's arguments that lesser current will not clow through Moyal's path the examiner disagrees and contends that the sigfnal Vin by Moyal will provide less voltage (and as such less current) than the analog ringing signal driving the subscriber loop (which is bypassed by Moyal's disclosed switch).

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Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner

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can normally be reached on M-F 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization

where this application or proceeding is assigned are 571-273-8300 for regular communications

and 571-273-8300 for After Final communications.

/Alexander Jamal/

Primary Examiner, Art Unit 2614

Examiner Alexander Jamal

December 11, 2008